2.1.5 Boiler Nameplate Data

Во	iler
Manufacturer	Nebraska Boiler.
Serial Number	Boiler #1 - D-3301
	Boiler #2 - D-3302
	Boiler #3 - D-3300
	Boiler #4 - D-3303
	Boiler #5 - D-3304
Model Number	Boilers 1, 2, 4, and 5 - NS•C/S• 46
	Boiler 3 - SC/S• 43
Capacity	40,000 lb/hr
Heating Surface	Boilers 1, 2, 4, and 5 - 3,066 ft ²
	Boiler 3 - 2,871 ft ²
Design Pressure	250 psig
Design Temperature	406.3° F (saturation temp)
Operating Pressure	100 psig
Operating Temp	337.89° f (saturation temp)
Boiler Height	13'-4"
Boiler Width	11'-1"
Boiler Length	16'-8"
ASME Code	Boiler and Pressure Vessel Code Section I - S Stamp 1992 Code, 1992 Addenda

FORM P-3 MANUFACTURER'S DATA REPORT FOR WATERTUBE BOILERS, SUPERHEATERS, WATERWALLS, AND ECONOMIZERS As Required by the Provisions of the ASME Code Rules, Section I

MASTER DATA REPORT (check one)

YES []

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– Mai	nufactured b	y <u>Natio</u>	nal Dynam	nics Corp.,	6940 Cornhu	sker Highwa	y, Lincoln,	Nebraska 68	507		
			nuisan Co	mbuetion '	() Inc., Brentw		iress of manufac	turer)			
Mai	nufactured fo	>r	erican co	·	inc., brenow	(Name ar	nd address of pu	rchaser)			
Loc	ation of inst	allation	NASA-God	ldard Space	Flight Cent				-,		
		Unto	wtuba Bai	ilan In	Nos. D-330	1 Boiler	ne and address)	94D5603A	3	181	1995
Jni	t Identificatio		ete boiler, sı			Serial No)	(CRN)	(Drawing		1 Bd. No.)	(Year Built)
		water	noncoe ilev	nizer, etc.)	•	·					
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no:	struction an	d wrokman	ship confort	n to Section I	of the ASME Bo	iler and Pressi (Ye	ure Vessel Code	. 1992 Add (Date	auda to Taas	_ and Code C (N	ases lumbers)
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				(Name	e of part, item no	umber, mfr's n	ame, and identify	ying stamp)			
			6(a)2	<u> LaBarge Pi</u>	pe and Steel	Company (K639-01-13	3 (S) K639-	01-14		
	Indicate	s N/A									
a)	Drums:	1	——т							Tube Ho	le Ligament
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	in.			*	ade	*	*	-	-	.318	.294
-	*		*	*		*	*	•		.318	.258
_	36	1	0	SA516 GR	70	.9375	18	-	-	.592	.296
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) .	No. &	Effi-	No. &	Eff-	Mati. Spec. No	·.			Radius	Manholes	static
	Type*	ciency	Type	ciency	Grade		*ness, in.	(3)	of Dish 32.6 (No. Size 2)12"x16"	Test, psi.
1	*	*	(2)-(2) (3)-(2)		SA516-70 SA516-70	.625	.5625	(3)		2)12"x16"	-
<u>}</u>	1-2	100%	(1)- (2)	100%	-	•	-	-	-		
	e if (1) Seamle	ess; (2) Fusi						**Indicate if	(1) Flat; (2) Dish	ed; (3) Ellipsoidal	; (4) Hemispheri
							6. (c) Headers	s no.	_		
_	Boiler tubes	: Thickness	Mari. S	Spec. No., Grad	le		• •	(Box or s	inuous or round		
	0.D.	.134	SA178 GI				Heads o	r Ends	- Hyd	ro. Test, psi _	-
2"	0.D.	.135	SA178 G	R A			(S 6. (d) Staybolt	Shape; Mat1. sp	ec no. Thickne	SS)	
	-	-	-					(Mat1 .spec.	no.; Diameter;	Size telltale; N	et area)
	-		 					in.N	et Area	in.² MAW	P P
							•	r. and Vert.)	• • •		
(e)	Mud Drum:		or		leads or Ends		pec. no.; Thickne	Hydro. *	l est, psi		
	(For:		er boilers, Sta pec. no.; Thic	ite Size; Shape:	•	Gilaps, Mari. 3	pec. 110., 111101010	,			
a)	Waterwall H		pec. 110., 1111	,,		Heads or Ends]	7(b) Wate	rwall Tubes	
			Material	Thickness,		Thickness,	Mateial	Hydro	Diameter,	Thickness, in.	Material Spec. No
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(a)	Economize	r Headers				Γ.	T -	-	8(B) ECON	- Tubes	T -
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FORM P-3 (Back)

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(4)	Superineater r	Material	Thickness,		Thickness.	Mateial	Hydro	9 (b) Superh Diameter.	Thickness.	Material
	 Size and Sha		in.	Shape	in.	Spec. No.	Test, psi.	in.	in.	Spec. No.
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	_	_	_	-	_	-	-	-	-	
(a)	Other Parts (1) Manway Rings	SD & WD (2)		(3)	-		10(b) Tube:	for Other Pa
_	12"x16"E1	lipse SA516-70	1.0	-	· -	_	-	_	-	-
!	-	-	-	-	-	-	-	-	-	-
	No Connect	tions to Item 1	Except as	Listed	-	-	-	-	-	-
Эр	enings (1) St	team (1)-6"-300	R.F.W.N.Flg	SA105		(2) Safety Va	ive(<u>2)-2 1/2</u>			
			No., size, and type		utlets)			and type of nozz		
	(3) BI	owoff (1)-1 1/2"-	-300#R.F.S.0	.F1g.SA105		(4) Feed (1)	-2"NPT Tapte			team Drum
		(No., size, and type				(No., size, t	ype and location	of connections)	
			Code Par. and/o		Hea	· 1	e Haatiaa a	4		
		Maximum Allowable	Formula on White		l l	l l	Heating sur		13.	T
		Working Pressure	MAWP is Base	Test, p		Ft.	on drum he	ads.	Field Hydro.	l est psi
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•	Waterwall		-			——-{ <i>!</i>	used for de			
<u>.</u>	Economizer	-	-	-			mining mini			
1	Superheater		-		-	<u> </u>	safety valve capacity.	9		
	Other Parts	250	PG 44	<u> </u>		J	C Supposity.		L	
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FORM P-4 MANUFACTURER'S PARTIAL DATA REPORT As Required by the Provisions of the ASME Code Rules, Section I

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`	factured by	LaB	arge Pi	pe & Stee	el Company	1300 N.	LaBarge Av	e. Wagon	er, OK 744	167 P-4 ID) No
		N	ational	Dynamics	Corn		(Name and address o Cornhusker		Lincol	In, NE 6	8507
. Ma	nufactured for	110	acionai	Dynamic.	5 COI P.		ne and address of pur				
l. Ide	ntification of Par	rt(s)									T
	Name of Part		Quantity	Line No.	. Mfr's Ident Numbe		Manufacturer's Drawing No.	CRN	l l	lational pard No.	Year Built
	DRUM		1	01	K639-01		K639				1994
					<u> </u>						<u> </u>
	rkmanship confo	rm to AS	ME Rules, Se	ection I of ASME	Boiler and Pressu	re Vessel Cod				LCODE. The α	Instruction and
_	199		Ad	denda to		1993 (Date)		, and Code Case	98	(Numbers)	
	(Yea	r)				(Date)				(1105515)	•
(a)	Drums:					· · · · · · · · · · · · · · · · · · ·				· · · · · ·	
	Inside	Ineir	de Length		Shell	Plates		Tube	sheets		lole Ligament iency, %
No.	Diameter,	ft.	in.	Mari.	Spec. No.,	Thickness	, Inside Radius,	Thickness	Inside Radius,	Longitu-	Circum-
	in.	7.0			Grade 70	in.	in.	in.	in.	dinal	ferential
1 2	22-3/4	10	' 0"	SA 516	GR 70	.625	11-3/8				
3											
4									<u> </u>	<u> </u>	<u> </u>
7	Longitud	linal		ircum.							
	Joint			Joints			Head	ls			Hydro-
No.	No. &	Effi-	No. & Type	Effi- ciency	Mari. Spec. No Grade	· 1	hickness, in.	Type**	Radius of Dish	Manholes No. Size	static Test, psi.
1	1(2)	dency 100	N/A	N/A	G. 4440	· · · · · ·	1	.,,,,			
2	1(2)	100	1,177								
3					<u></u>				<u> </u>		
. 1	e if (1) Seamles	s; (2) Fus	ion welded.					**Indicate if	(1) Flat; (2) Dishe	d; (3) Ellipsoidal	; (4) Hemispheri
		.,.	*								
(b) E	Boiler tubes:						6. (c) Headers n		r sinuous or round	l. Mari. spec. no	.: Thickness)
Dia	meter Th	ickness	Mari.	Spec. No., Grad	ie		Heads or	· · · · · · · · · · · · · · · · · · ·	Hydro		
								• • • • • •	ec no. Thickness))	
							6 (d) Staybolts	(Mari spe	c. no.; Diameter; S	Size telitale: Net	area)
							Pitch		et Area		
							(Hor. a	and Vert.)	(Supporte		
					Janda as Enda			Hudro T	by one bo est, psi	•	
(e) M	Mud Drum: (for se			te size; Shape;	Heads or Ends		. spec. no.; Thickness		ası, hsı		
	(,, - -,		pec. no.; Thic								
(a) V	Waterwall Head	ers:	Managina -1	Thidassa		Heads or End Thickness,		Hydro	7(b) Waterv Diameter,	vall Tubes Thickness.	Material
No.	Size and Sha	pe	Material Spec No.	Thickness, in.	Shape	in.	Spec. No.	Test, psi.	in.	in.	Spec. No.
			F				·				
									I		

FORM P-4 (Back)

(a) F	conomizer Hea	aders			Heads or Ends		7	8b) Econor	nizer Tubes	
<u>,-, t</u>		Material	Thickness,		Thickness,	Material	Hydro	Diameter,	Thickness,	Material
١	Size and Sha	ipe Spec No.	in.	Shape	in.	Spec. No.	Test, psi.	in.	in.	Spec. No.
•		-								
										<u> </u>
٦	,									<u> </u>
ـــا a)	Superheater He	eaders						9(b) Superh	eater Tubes	· •
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\neg										
ᅥ								<u> </u>		<u> </u>
									-	
a)	Other Parts (1)		(2)		(3)	,		10(b) Tubes fo	or Other Parts	
							<u> </u>			ļ
							<u> </u>			
						<u> </u>	<u> </u>	L	<u> </u>	<u> </u>
						(m. 6. (- 16.))				
)pe	nings (1) St	eam				(2) Safety Valv	/e	and type of noza		
			(No., size, and typ	e of nozzles or o	utlets)	(A) P 4				
	(3) Bio	owoff				(4) Feed	(No size t	ype and location		
			(No., size, and type	e of nozzies og of	uueus)		(140., 5128, [The min incannii	J. 3011110000110/	
			Code Box and	<u></u>	Hea	ina				
		Maximum Allowal	Code Par. and le Formula on Wh	ŀ		- 1	Heating surf		13.	
		Working Pressur	i			1	to be stamped on drum hea		Field Hydro.	Test psi
-	Boiler	Working Fressur	6 110(11) 13 243	10047		1/	This heating			
-	Waterwall					— Y	face not to b	e		
-	Economizer						used for det mining minir			
+	Superheater						safety valve			
-	Other Parts	250 psi	PG 27.2	2			capacity			
		The weld programme of the second programme of the seco	rocedure u in a post	<u>sed on th</u> weld heat	is item h treated	as also b condition	een			
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		. 303 111111.	wall	CERTIEIC	CATE OF SHOP	COMPLIANC	F			
				CENTIFIC	AIL OF SHOP	OOM! LIAITO	-			
ملا	certify the sta	tements made in	this Manufacture	's Partial Data	Report to be co	rect and that a	ill details of mate	erial, construct	ion, and workma	anship of thi
oile	er part confor	m to Section I of	the ASME BOILE	AND PRESSI	ure vessel (ODE.				
	•	norization No	14.120	to use the (P	P) or (S)	SSymbo	ol expires]	uly 19	, 19	95
				41	111		1 - 0	Di	[co+2 0	Company
ate	e <u>12-20-</u>	94Signed	Kali	~/ /	2666	Na	ame Lab		& Steel	Company
				(Authorized Re	presentative)			(M	anufacturer)	
				CERTIFIC	CATE OF SHO	PINSPECTION	N			
					! D D-	are and Decou	\/a.e.al laesa	otors and the	state or province	ent ∩K
th.	e undersigne	d, holding a valid	commission issue loyds Insur	a by The Nano	nai board of bo	eton Ty	have inspe	cted the part	of a boiler des	cribed in thi
		artial Data Report		12-20	19 (14 and state	that to the best of	of my knowledg	e and belief, the	manufacture
ae ae	constructed th	nie nart in accord:	ance with the appli							
vs	ianina this cer	tificate neither the	inspector nor his e	mployer makes a	any warranty, ex	oressed or impli	ed, concerning t	ne part describe	d in this Manufa	cturer's Parti
at	a Report, Furth	nermore, neither t	ne inspector nor his	employer shall	be liable in any r	nanner for any p	personal injury o	property dama	ige or a loss of a	ny kind arisir
		with this inspect			·					
	/									
	1	2-20-94								
	.,	1. 1	A				NV # 601			
igr	ned	an Wa	rgester	<u> </u>	Commiss	UI 13	OK # 684			\l_ \
	~	(Autho	(sed inspector)			(Nat'l Boa	ırd (incl. endors	ements) State,	Province, and	NO.)

FORM P-4 MANUFACTURER'S PARTIAL DATA REPORT As Required by the Provisions of the ASME Code Rules, Section I

t ⁽	actured by	LaBa	arge Pip	e & Stee	1 Company	1300 N. I	_aBarge Av	e. Wagone	r, OK 744	67 P-4 ID I	No • -
			ational			(Na	me and address of ornhusker	manufacturer)		n, NE 68	3507
2. Mar	nufactured for	110	acionai	<u>Dynamics</u>	00171		and address of pure				
3. ider	nufication of Part	(s)				:6.:	Manufacturer's		Na Na	ational	Year
	Name of Part	ĺ	Quantity	Line No.	Mfr's Ident	- 1	Drawing No.	CRN	1	ard No.	Built
	DRUM		1	01	K639-01		K639				1994
	DICOLL										
4 The	chemical and p	hvsical p	roperties of all	parts meet the	requirements of m	aterial specification	ons of the ASME B	OILER AND PRE	SSURE VESSEL	CODE. The cor	struction and
wor	kmanship confo	m to AS	ME Rules, Sec	tion I of ASME	Boiler and Pressu	re Vessel Code.				N/A	
	199		Adde	enda to		1993 (Bara)		, and Code Case	s	(Numbers)	
	(Year)				(Date)				(*************************************	-
6. (a) l	Drums:										
								Tubo	sheets		ency, %
	Inside		de Length	Mort	Shell Spec. No.,	Plates Thickness.	Inside Radius,	Thickness	Inside Radius,	Longitu-	Circum-
No.	Diameter, in.	ft.	in.		Spec. 140., Grade	in.	in.	in.	in.	dinal	ferential
1	22-3/4	10	' 0"	SA 516	GR 70	.625	11-3/8				
2	<u></u>										
3											
4						<u> </u>					
_	Longitud	inal	Cir	rcum.							Lhadan
	Joints			oints	Marl. Spec. N	ia	Head	is	Radius	Manholes	Hydro- static
No.	No. & Type*	Effi- ciency	No. & Type	Effi- ciency	Grade	1	kness, in.	Type**	of Dish	No. Size	Test, psi.
1	1(2)	100	N/A	N/A							
2	, (,										
3				-							
4 Indicat	e if (1) Seamles	s: (2) Fu:	sion welded.					**Indicate if	(1) Flat; (2) Dishe	d; (3) Ellipsoidal	(4) Hemispherica
maioai	5 II (1) 55ai ii 55	-, (-, -									
5. (b) ¹	Boiler tubes:						6. (c) Headers r		r sinuous or round	. Mari, spec. no.	: Thickness)
Die	Th	ickness	Mart 9	Spec. No., Grad	de		Heads or		Hydro		
	meter Th	CAIESS						(Shape; Matl. sp	ec no. Thickness)		
							6 (d) Staybolts		c. no.; Diameter; S	Size telitale: Net	area)
							Pitch		t Area		
								and Vert.)	(Supporte		
									by one bo	•	
5. (e)	Mud Drum:		.		Heads or Ends _		pec, no.; Thicknes		est, psi		
	(for se		der boilers, Stat spec. no.; Thicl			(Snape; Mail. S	pec, no., micknes	- 1			
7. (a)	Waterwall Head		apec. Ho., THIC			Heads or Ends			7(b) Water	, 	
<u>'-/</u>		T	Material	Thickness,		Thickness,	Material	Hydro	Diameter,	Thickness,	Material Sees No.
No.	Size and Sha	pe	Spec No.	in.	Shape	in.	Spec. No.	Test, psi.	in.	in.	Spec. No.
						i .	1	1	.1	I	

FORM P-4 (Back)

i. (a)						Heads or Ends]	8b) Econom	izer Tubes	~
	Mate		Material	Thickness,		Thickness,	Material	Hydro	Diameter,	Thickness,	Material
-	Size and Sh	аре	Spec No.	in.	Shape	in.	Spec. No.	Test, psi.	in.	in.	Spec. No.
_	1										
	†										
	1										
) (a)	Superheater H	eaders						<u> </u>	9(b) Superhe	ater Tubes	
- (4)	I	1									
											
	L							l	L	L	
0 (2)	Other Parts (1)			(2)		(3)			10(b) Tubes for	Other Parts	
1	Culei Faits (1)			\Z/_				T	70(2) 1000010	1	
2											
3	l							l		L	L
_											
1. Op	enings (1)S	eam					(2) Safety Valv	e			<u>.</u>
				No., size, and type	e of nozzles or ou	ıtlets)			and type of nozz	es or outlets)	
	(3) B	owoff					(4) Feed				
			(No., size, and type	e of nozzles or ou	ıtlets)		(No., size, ty	pe and location of	of connections)	
12.				Code Par. and/	or	1	·	a 11			
		Maximu	m Allowable		1		1			1	_
		Workin	g Pressure	MAWP is Base	d Test, p	si Sq.	Ft.			Field Hydro.	Test psi
а	Boiler						\bot V				
b	Waterwall										
С	Economizer	Working Pres Boiler Waterwall Economizer Superheater Other Parts 250 psi					1	4			
d	Superheater							safety valve			
	Other Parts	250	psi	PG 27.2.2	2			capacity			
		Maximum Allowable Form Working Pressure MAV oiler Vaterwall conomizer uperheater ther Parts 250 psi PG The weld proce qualified in a JM2391 Certified to m									
14е	narks:	FOR	INFORM	ATION ONL	Υ:						
	•						-				
	•	qua	lified	in a post	weld hea	t treated	conditio	n.			
		JM:	2391								
		Cer	tified	to materia	al & work	manship o	nly.				
		.83	1" min.	wall							
					CERTIFIC	ATE OF SHOP	COMPLIANCE	E			
We	certify the sta	atements	made in thi	s Manufacturer	s Partial Data I	Report to be co	rect and that al	l details of mate	erial, construction	on, and workma	nship of this
	-								,	•	•
						_		expires	July 19	. 19	95
-)		7				,	
Da	te 1-26-	95	Signed	tale	4 1 1	13111	Na	me LaBa	rge Pipe	& Steel C	ompany
Da	<u> </u>		Olgilod _	10000	Authorzed Rei	nresentative)					
				``	Add Dilect ite	preservative					
					CEDTIEI	TATE OF SUCI	INSPECTION	1			
					CENTIFIC	DATE OF SHO	MOFECTION				
1 44	(No., size, and type of nozzles or outlets) (No., size, type and location of connections) (No., size, type and location of connections)		of OK								
ı, u	Other Parts (1)		ribad in this								
								-	-		
		er derwall commizer derheater der Parts 250 psi PG 27.2.2 FOR INFORMATION ONLY: The weld procedure use qualified in a post we JM2391 Certified to material .831" min. wall To the statements made in this Manufacturer's Part conform to Section I of the ASME BOILER AN the of Authorization No. 14,120 to 14,120 to 14,120 to 15,120 to 16,120 to 17,120 to 18,120 to 19,120 to 19,						•	and Delief, Ine i	naioacui ei	
		•		• •						1 i alb.in. 1 4 4	n maria Danial
•				•				_			
	•	Maximum Allowable Working Pressure MAWP is Based For Information Only: The weld procedure used qualified in a post well JM2391 Certified to material 8 .831" min. wall Manufacturer's Paramotor to Section 1 of the ASME BOILER AND Authorization No. 14,120 to use to be a section of the ASME BOILER AND Authorization No. 14,120 to use to be a section of the ASME BOILER AND Authorization No. 14,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use to be a section of the ASME BOILER AND Authorization No. 12,120 to use the ASME BOILER AND Authorization No. 12,120 to use the ASME BOILER AND Authorization No. 12,120 to use the ASME BOILER AND Authorization No. 12,120 to use the ASME BOILER AND Authorization No. 12,120 to use the ASME BOILER AND Authorization No. 12,120 to use the ASME BOILER AND Authorization No. 12,120 to use the ASME BOILER AND Authorization No. 12,120 to use the ASME BOILER AND Authorization No. 12,120 to use the ASME BOILER AND Authorization No. 12,120 to use the ASME BOILER AND Authorization No. 12,120 to use the		employer shall	oe liable in any n	namer for any p	ersonal injury or	property damag	ge or a loss or an	y kino arising	
fror	n or connecte	d with thi	s inspection.								
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	\	1.	()(1)	// <i>/</i> .				**			
Sig	ned	$\lambda Q V$		WELL		Commissi	ons0	K# 69/			
			(Authorize	d inspector)			(Nat'l Boar	d (incl. endorse	ements) State, I	Province, and N	0.)

FORM P-4 MANUFACTURER'S PARTIAL DATA REPORT As Required by the Provisions of the ASME Code Rules, Section I

	factured by	<u>La</u>	Barge P	ipe & St	eel Compa		LaBarge A		-	74467 P-4 ID	No
. Ma	anufactured for	<u>Na</u>	tional	Dynamics	Corp.	6940 Cor	nhusker Hy and address of pu	vy. Li		. 68507	
lde	entification of Pa	art(s)				(/42.10	and address of por	alasti)			
		T		Line	Mfr's Ide	ntifying	Manufacturer's		N	lational	Year
	Name of Part	:	Quantity	No.	Numt	pers	Drawing No.	CRN	l Bo	oard No.	Built
	DRUMS		1	1	· K655-0	1-2	K655				1995
		orm to AS	ME Rules, Se		Boiler and Press	material specificati sure Vessel Code.	ons of the ASME B	OILER AND PR			nstruction and
	(Yea					(Date)		, ш.ч оосо осо		(Numbers)	
(a)	Drums:										
		 			<u>~.</u>	W DI - A				i	ole Ligament
۱۵	Inside	Insid	le Length in	Line 1	Spec. No.,	Thickness,	Inside Radius.	Tube	esheets Inside Radius.		ency, %
lo.	Diameter, in.	"	in.	i	opec. No., irade	in.	inside Hadius,	in.	in.	Longitu- dinal	Circum- ferential
1	36"	15'	8"	SA516 G		.875"	18"	****	41.	Gillen	ाचा चा ।धर्मा
2	36	13	0	SASTO G	F 70	.075	10	······			
3											
4											
	1	dia al	T 6								
	Longitu Joint		1	rcum. oints			Head	e			Lhuden
	No. &	Effi-	No. &	Effi-	Matil. Spec. N	No.	rieau	<u> </u>	Radius	Manholes	Hydro- static
١	Type*	ciency	Туре	ciency	Grade	1	kness, in.	Type**	of Dish	No. Size	Test, psi.
1	2(2)	100	1(2)	100			7				
2											
3											
4			<u> </u>								
	e if (1) Seamles Boiler tubes:	s; (2) Fusi	on welded.				6. (c) Headers n		(1) Flat; (2) Dishe	d; (3) Ellipsoidal;	(4) Hemispher
							• • •		r sinuous or round	, Mari. spec. no.	; Thickness)
Diar	neter Th	ickness	Mari. S	Spec. No., Grad	8		Heads or E	nds	Hydro	. Test, psi	
			ļ				•		ec no. Thickness)		
							6 (d) Staybolts_		c. no.; Diameter; S	ize telitale; Net a	rea)
							Pitch	in.Ne	et Area	in.2 MAWP _	F
		······	<u> </u>				(Hor. a	nd Vert.)	(Supporte	ıd	
									by one bo	•	
B) N	fud Drum: for se			H e size; Shape;	eads or Ends		ec. no.; Thickness		est, psi		
	, ac		ec. no.; Thick	•		/ accelerationers als		•			
a) V	/aterwall Heade	ers:				Heads or Ends			7(b) Waterw	vall Tubes	
T			Material	Thickness,		Thickness,	Material	Hydro	Diameter,	Thickness,	Material
.	Size and Sha	pe S	Spec No.	in.	Shape	in.	Spec. No.	Test, psi.	in.	in.	Spec. No.
4						ļ					<u> </u>
+											<u> </u>
L					L				<u> </u>		<u> </u>

FORM P-4 (Back)

(a) Economizer He	aders			Heads or Ends			8b) Econom	, , , , , , , , , , , , , , , , , , , 	
, , =	Material	Thickness,		Thickness,	Material	Hydro	Diameter,	Thickness,	* Material
Size and Sh	ape Spec No.	in.	Shape	in.	Spec. No.	Test, psi.	in.	in.	Spec. No.
-		 							
1									
Superheater H	leaders	1		J			9(b) Superhe	ater Tubes	
, caperneater :	1	T							
		 							
+		 		-					
		I		L				<u> </u>	
N Other Parts (1)	,	(2)		(3)			10(b) Tubes for	r Other Parts	
Uner Paris (1))					T T			
		 							
		<u> </u>				 			
		<u> </u>				<u> </u>	L		
(4) 6	iteam				(2) Safety Valv	/e			
penings (1) S		No., size, and typ			(_,,	(No., size,	and type of nozz	les or outlets)	
(O) D	· ·	•		J,	(4) Feed	•			
(3) 6	lowoff	No., size, and typ		utlets)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(No., size, t	ype and location of	of connections)	
	•	,, s.z.s, and typ	. J Zanio VI VI	- · •					
		Code Par. and/	or	Hea	ting				
	Maximum Allowable	Formula on Whi	1	dro. Surf	ace	Heating surf		13.	
	Working Pressure	MAWP is Base	1			to be stamped on drum hea		Field Hydro.	Test psi
Boiler	Working Flessure	I I I I I I I I I I I I I I I I I I I		-		This heating			
Waterwall		 				face not to b			
Economizer		 				used for det mining minir			
Superheater		 				safety valve			
Other Parts	250 psi	PG 27.2	2			capacity			
	The weld pr qualified i	ocedure us n a post v	sed on the	is item h	as also b condition	een •			
	Certified t	<u>o materia</u>	& workm	<u>anship on</u>	ly.				
	.563 min. w	all							
			CERTIFIC	CATE OF SHOP	COMPLIANC	E			
									anabia of this
le certify the st	atements made in th	is Manufacturer	's Partial Data	Report to be co	rrect and that a	ill details of mat	enai, construction	on, and working	arisinp or uns
oiler part confo	rm to Section I of the				ODE.		ulv 19	, 19	05
ertificate of Au	thorization No	14.120	_to use the (P	P) or (S)	Symbo	ol expires]	uly 19		33
			.+	Rith	NI	and LaR	arge Pipe	& Steel	Company
ate <u>12-2</u>	$0-94$ Signed _	Tarc	1/2/2	H125	Na	ame Lab		anufacturer)	<u> </u>
		•	Authorized Re	presentative)			(1416	and actorery	
			OFFICE	OATE OF CUO	D INCRECTION	vi			
			CERTIFIC	CATE OF SHO	PINSPECTION	•			
			d by The Mede	nal Daard of Da	ilor and Proces	ro Voccal Inche	actors and the s	tate or province	of OK
the undersigne	ed, holding a valid co y <u>Delta Llo</u>	mmission issue	a by The Nation	nai board oi bu	eton Tv	have inspe	cted the nart o	of a boiler des	cribed in thi
			2-20	100	OA and state	that to the best	of my knowledge	and belief, the	manufacture
anufacturer's F	Partial Data Report or								
is constructed	this part in accordance rtificate neither the ins	se with the applic	nologor makes	or are volute bo	ressed or impli	ed concerning	he part describe	d in this Manufac	turer's Parti
signing this ce	ertificate neither the ins thermore, neither the	spector nor his er	omolovozebeli omolovozebeli	he liable in acu:	nanner for any i	personal injury o	property damag	ge or a loss of a	ny kind arisin
			employer snam	DO HOUND HI ONLY I		JU. 301141 11 1901 9 0	. p. sps. () sm. (m)		-
om or connecte	ed with this inspection	1.							
. 4.	2 20 04	_							
te1	G= CU-94	-A							
/	by lala	certin	>	Cai	ione	0K	# 684		
gned	nen vou	nau.		Commiss		ırd (incl. endors		Province and I	No.)
٠	(Authorize	ed Inspector)			(Nati Boa	ua (inci. endors	enens) sale,	, IUVIIIUG, AIIU I	,

FORM P-6 MANUFACTURERS' DATA REPORT SUPPLEMENTARY SHEET as required by the provisions of the ASME Code rules

				(name and address)		braska 68
Purchaser	American Comb	oustion. Inc., Brenty	ood, MD			
			(name and address)			
Type of boiler	Watertube Boi	ler				
Boiler noD-33				94D5603	3181	199
	(mfrs. serial no.)	(state or prov.)	(CRN)	(drawing no.)	(Nat'l. 8d. no.)	(year bu
		····				
Data Items						
by Line No.						
						
6(a)2		Barge Pipe and Steel				
	K039-01-14 US	ed 6'8" Total leng	th of drum 10	5'8". 100% Rad1	ography	
6(a)3	Steam Drum Ad	ded 1'0" SA516-70 -	length of Dr	m 1619" 100 Pa	diography	······································
	O S S S I S I S I S I S I S I S I S I S	1 O ONO 10-10 -	conquir or ore	AIII TO O . TOO KO	u i ogi apily	
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11-6-00	National	Dynamics Corp.		ned Bol X	1. 1. 1. 1.	
11-6-95	Name National	Januaries outp.	Sig	ned_i	rogerule	
	Signed From	1 4 6	`		11121	